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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

November 06, 2014

**WELL WORK PERMIT**

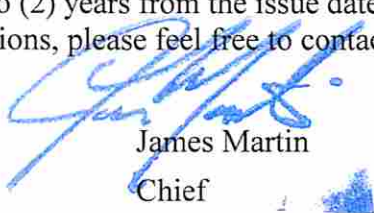
**Horizontal 6A Well**

This permit, API Well Number: 47-4105694, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 514172

Farm Name: HORNER, WILLIAM & MARY ET

**API Well Number: 47-4105694**

**Permit Type: Horizontal 6A Well**

Date Issued: 11/06/2014

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

4704105694  
8/15

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION**

1) Well Operator: EQT Production Company

Operator ID	County	District	Quadrangle
	041	2	542

2) Operator's Well Number: 514172 Well Pad Name: PET35

3) Farm Name/Surface Owner: William & Mary Horner et al Public Road Access: Rt 17

4) Elevation, current ground: 1,158.0 Elevation, proposed post-construction: 1,155.8

5) Well Type: (a) Gas ☒ Oil ☐ Underground Storage ☐

Other

(b) If Gas: Shallow ☒ Deep ☐

Horizontal ☒

SDW  
9/24/2014

6) Existing Pad? Yes or No: no

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):

Target formation is Marcellus at a depth of 7446' with the anticipated thickness to be 64 feet and anticipated target pressure of 3109 PSI

8) Proposed Total Vertical Depth: 7,446

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,484

11) Proposed Horizontal Leg Length: 8,074

12) Approximate Fresh Water Strata Depths: 131, 195, 263, 313

13) Method to Determine Fresh Water Depth: By offset wells

14) Approximate Saltwater Depths: n/a

15) Approximate Coal Seam Depths: 186, 222, 260, 674, 899, 1041, 1109

16) Approximate Depth to Possible Void (coal mine, karst, other): None reported ✓

17) Does proposed well location contain coal seams directly overlying or adjacent to an active mine?

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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SEP 29 2014



47041056984/

August 13, 2014

Mr. Gene Smith  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Casing on Wells 514167, 514168, 514169, 514170, 514171, 514172 (PET35)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 939' KB, 50' below a red rock formation. This will cover up red rock formations that have given EQT drilling issues in the past. We will set the 9-5/8" intermediate string at 3189' KB, 50' below the porosity zone in the Bayard formation.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark  
Permitting Supervisor

Enc.

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4704105694

WW - 6B

(3/13)

CASING AND TUBING PROGRAM

18)

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE: for Drilling	INTERVALS: Left in Well	CEMENT: Fill- up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	939	939	817 C.T.S.
Coal							
Intermediate	9 5/8	New	MC-50	40	3,189	3,189	1,248 C.T.S.
Production	5 1/2	New	P-110	20	17,484	17,484	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

SDW  
9/24/2014

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	-	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	* See Note 2	1.21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,590	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

Packers

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

**Note 1:** EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

**Note 2:** Reference Variance 2014-17.

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WV Dept. of Environmental Protection

4704105694

Well Schematic  
EQT Production

Well Name 514172 (PET35H6)  
County Lewis  
State West Virginia

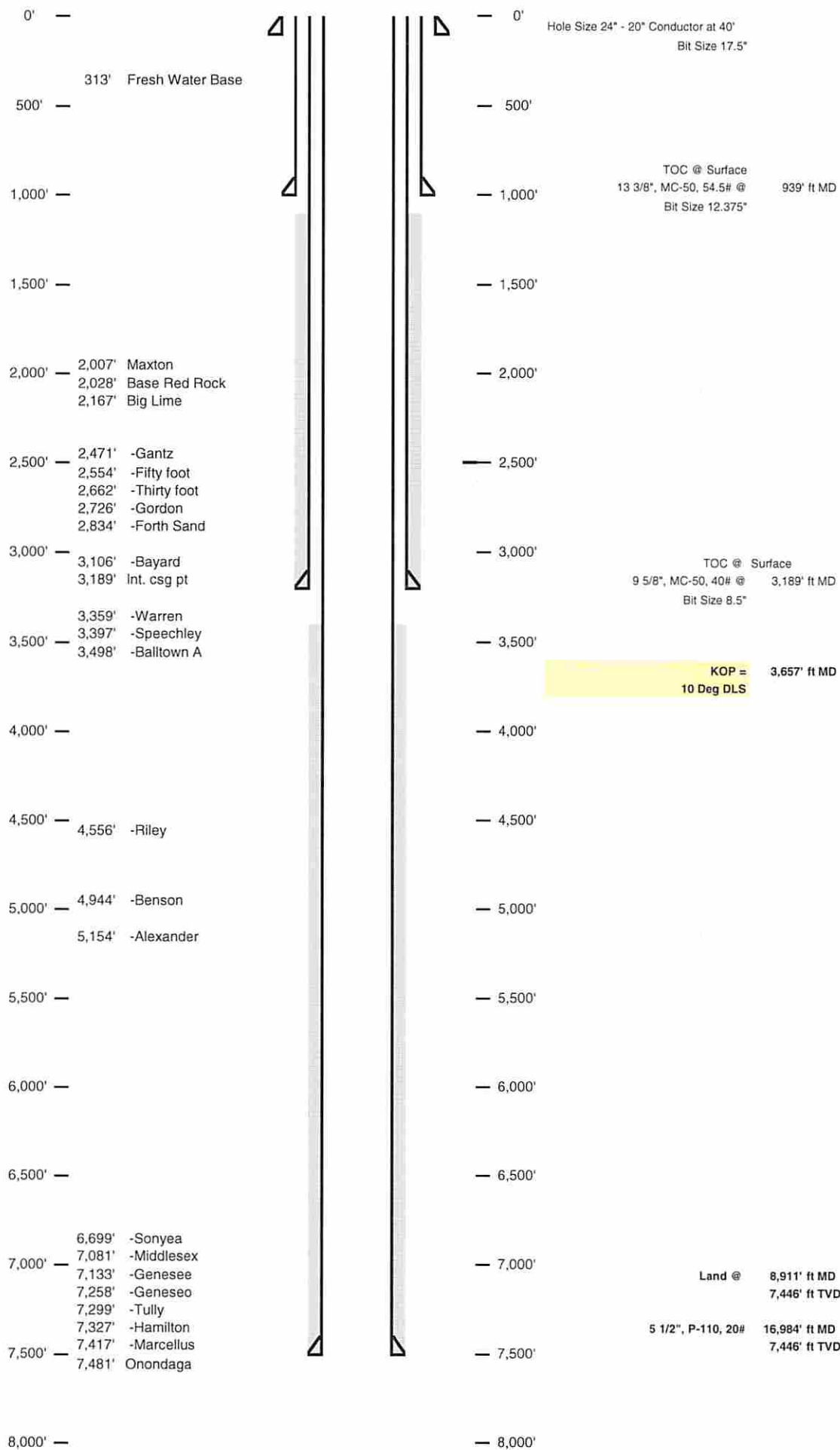
Elevation KB:  
Target  
Prospect  
Azimuth  
Vertical Section

1169

Marcellus

337

8661



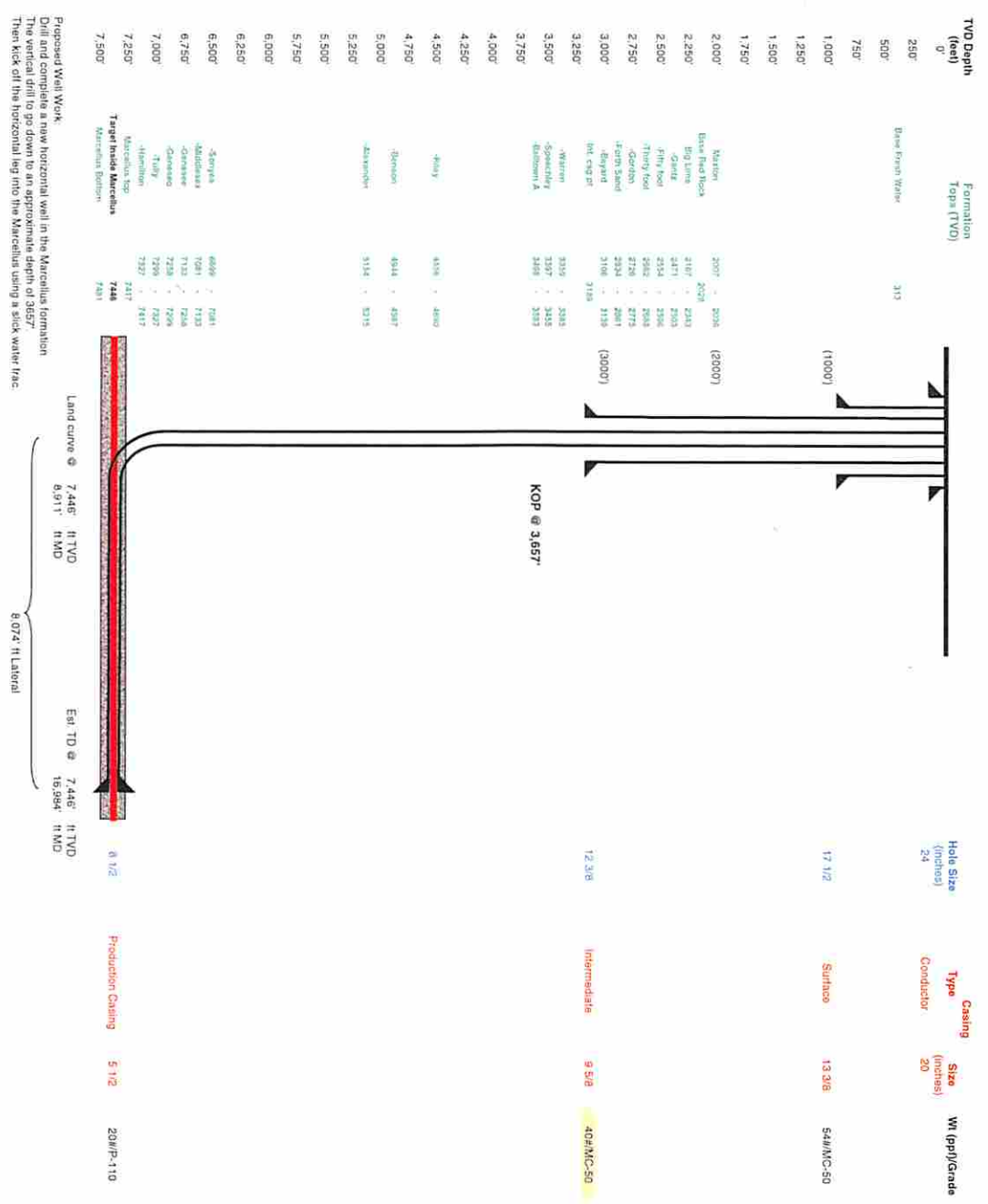
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Well 514172 (PET35H6)  
EOT Production  
Peterson  
Lewis

Admin 227  
Vertical Section 861

West Virginia



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(3/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the marcellus formation. The vertical drill to go down to an approximate depth of 3657  
then kick off the horizontal leg into the marcellus using a slick water frac.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 29.19

22) Area to be disturbed for well pad only, less access road (acres): 20.96

23) Describe centralizer placement for each casing string.

- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One cent at the shoe and one spaced every 500'.
- Production: One spaced every 1000' from KOP to Int csg shoe

24) Describe all cement additives associated with each cement type. Surface (Type 1 Cement): 0-3% Calcium Chloride  
Used to speed the setting of cement slurries.

0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.  
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

Production:

Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.

0.3% CFR (dispersant). Makes cement easier to mix.

Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.

0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.

60 % Calcuim Carbonate. Acid solubility.

0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.

25) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating

one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance hole cleaning use a soap sweep or increase injection rate & foam concentration.

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

\*Note: Attach additional sheets as needed.

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WW-9  
(5/13)Page 041 of 0  
API No. 47 - 041 - 0  
Operator's Well No. 514172STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

## Fluids/Cuttings Disposal &amp; Reclamation Plan

Operator Name EQT Production Co. OP Code \_\_\_\_\_  
Watershed (HUC10) Sand Fork Quadrangle Peterson  
Elevation 1155.8 County Lewis District Court HouseDo you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes x No \_\_\_\_\_Will a pit be used? Yes: ✓ No: X

If so please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes \_\_\_\_\_ No X If so, what ml.? 60

## Proposed Disposal Method For Treated Pit Wastes:

Land Application  
• Underground Injection ( UIC Permit Number 0014, 8462, 4037 )  
Reuse (at API Number \_\_\_\_\_ )  
• Off Site Disposal (Supply form WW-9 for disposal location)  
Other (Explain \_\_\_\_\_ )Will closed loop system be used? Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well? Air, freshwater, oil based, etc.

Air is used to drill the top-hole sections of the wellbore,  
Surface, intermediate, and Pilot hole sections, water based  
mud is used to drill the curve and lateral.

If oil based, what type? Synthetic, petroleum, etc \_\_\_\_\_

Additives to be used in drilling medium? MILBAR, Viscosifier, Alkalinity Control, Lime, Chloride Salts, Rate Filtration Control, Deflocculant, Lubricant, Detergent, Defoaming, Walnut Shell, X-Cide, SOLTEX Terra. Of the listed chemicals the following are generally used when drilling on air: lubricant, detergent, defoaming. Water based fluids use the following chemicals: MILBAR, viscosifier, alkalinity control, lime, chloride salts, rate filtration control, deflocculant, lubricant, detergent, defoaming, walnut shell, x-cide, SOLTEX terraDrill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill  
- If left in pit and plan to solidify what medium will be used? (Cement, Lime, sawdust) n/a  
- Landfill or offsite name/permit number? See Attached List

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Victoria J. Roark  
Company Official (Typed Name) Victoria J. Roark  
Company Official Title Permitting SupervisorSubscribed and sworn before me this 13 day of August, 20 14Pamela Sykes

Notary Public

My commission expires 8-24-22

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Office of Oil and Gas  
WV Dept. of Environmental Protection

**EQT Production Water plan**  
**Offsite disposals for Marcellus wells**

4704105694

**CWS TRUCKING INC.**

P.O. Box 391  
Williamstown, WV 26187  
740-516-3586  
Noble County/Noble Township  
Permit # 3390

**LAD LIQUID ASSETS DISPOSAL INC.**

226 Rankin Road  
Washington, PA 15301  
724-350-2760  
724-222-6080  
724-229-7034 fax  
Ohio County/Wheeling  
Permit # USEPA WV 0014

**TRI COUNTY WASTE WATER MANAGEMENT, INC.**

1487 Toms Run Road  
Holbrook, PA 15341  
724-627-7178 Plant  
724-499-5647 Office  
Greene County/Waynesburg  
Permit # TC-1009

**Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

**BROAD STREET ENERGY LLC**

37 West Broad Street  
Suite 1100  
Columbus, Ohio 43215  
740-516-5381  
Washington County/Belpre Twp.  
Permit # 8462

**TRIAD ENERGY**

P.O. Box 430  
Reno, OH 45773  
740-516-6021 Well  
740-374-2940 Reno Office Jennifer  
Nobel County/Jackson Township  
Permit # 4037

**KING EXCAVATING CO.**

Advanced Waste Services  
101 River Park Drive  
New Castle, Pa. 16101  
Facility Permit# PAR000029132

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WW-9

Operator's Well No. 514172

Proposed Revegetation Treatment: Acres Disturbed 29.19 Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type

Fertilizer Amount 1/3 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

## Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. P. W. Smith

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade E&S as necessary per WV DEP E&S manual.

Title: Oil & Gas InspectorDate: 9/24/2014Field Reviewed? ( X ) Yes ( ) No

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# Site Specific Safety Plan

EQT PET 35 Pad

Peterson

Lewis County, WV

For Wells:

514167 514168 514169 514170 514171 514172 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date Prepared:

June 30, 2014

  
EQT Production

  
Title

8-13-14  
Date

\_\_\_\_\_  
WV Oil and Gas Inspector

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

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Division of Oil and Gas  
Environmental Protection

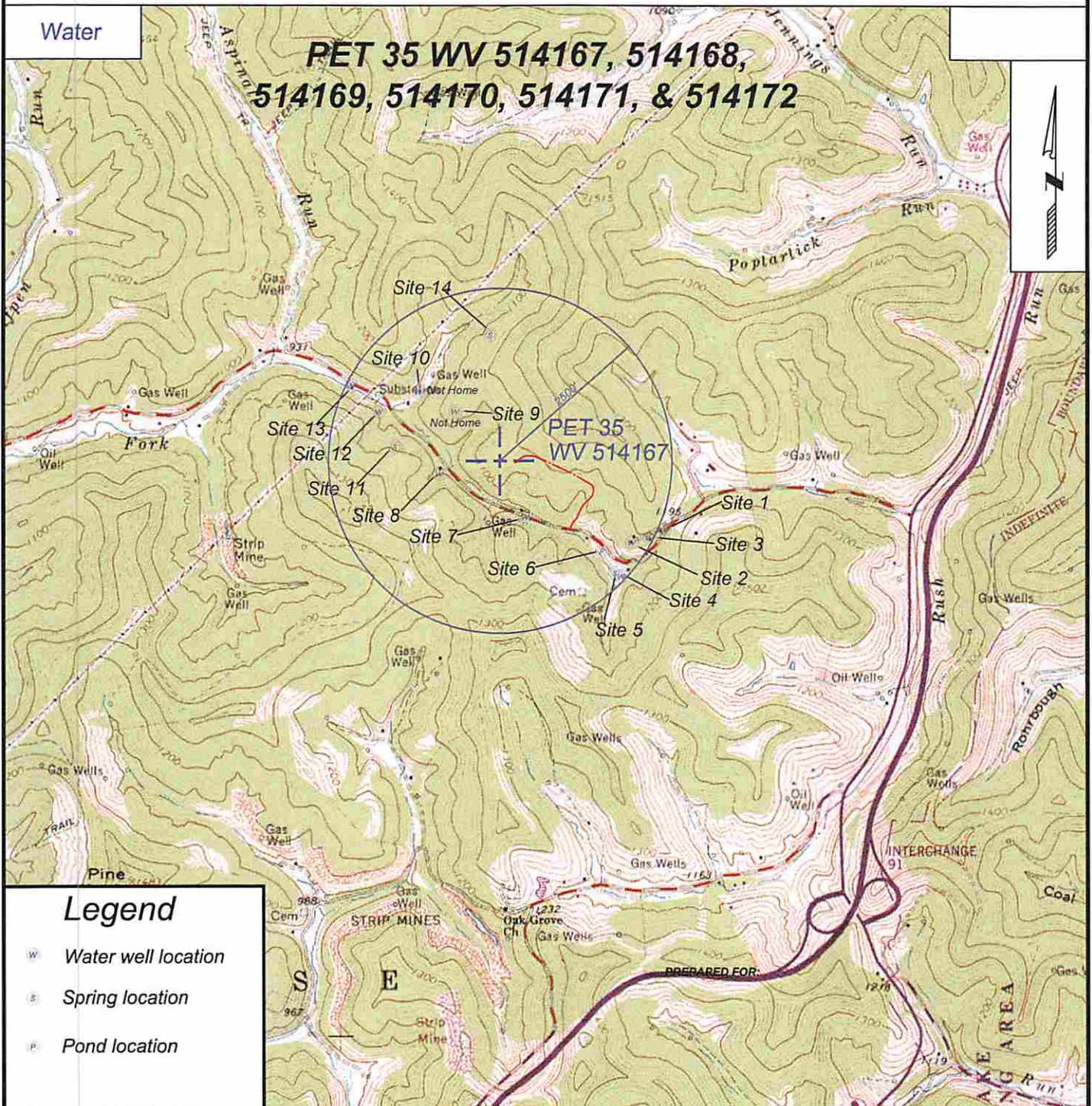
SDW  
9/24/2014



Topo Quad: Peterson 7.5Scale: 1" = 2000'County: LewisDate: June 23, 2014District: CourthouseProject No: 371-12-00-13

Water

**PET 35 WV 514167, 514168,  
514169, 514170, 514171, & 514172**



SURVEYING AND MAPPING SERVICES PERFORMED BY:

**ALLEGHENY SURVEYS, INC.**

1-800-482-8606  
237 Birch River Road  
Birch River, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330





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9457'

LATITUDE 39 - 00 - 00

**WV 514172**  
**EQT Production Company**  
**Weston Creek LLC, et. al.**  
**1100 acres**

-  Proposed Gas Well  
 Located Corner, as noted  
 Lease Tract Lines  
 Surface Tract Lines (Approx)

5J - 20.1	William Settles, II	10 Acres
5J - 20.4	William Settles, II	0.36 Acres
5J - 20.5	Johnathon Sprouse	38 Acres
5J - 20.6	Sharon Jones	12.50 Acres
5J - 20.7	William Settles, II	2.23 Acres
5J - 28.1	Richard Riddle	7.19 Acres
5J - 28.2	Amy & Thomas Metz	2.81 Acres

WV 514172 coordinates:  
NAD 27 N: 721,763.58 E: 2,132,716.60  
NAD 27 Lat: 38.981156 Long: -80.533172  
NAD 83 UTM N: 4,314,799.65 E: 540,450.27

WV 514172 Landing Point coordinates:  
NAD 27 N: 720,605.41 E: 2,129,899.88  
NAD 27 Lat: 38.978015 Long: -80.543100  
NAD 83 UTM N: 4,314,446.69 E: 539,592.10

WV 514172 Bottom Hole coordinates:  
NAD 27 N: 728,037.22 E: 2,126,745.27  
NAD 27 Lat: 38.998461 Long: -80.554070  
NAD 83 UTM N: 4,316,710.88 E: 538,630.73

West Virginia Coordinate System of 1927  
(South Zone) based upon Differential GPS  
Measurements.  
Plat orientation, corner and well ties are  
based upon the grid north meridian.  
Well location references are based upon the  
grid north meridian.  
UTM coordinates are NAD83, Zone 17,  
Meters.

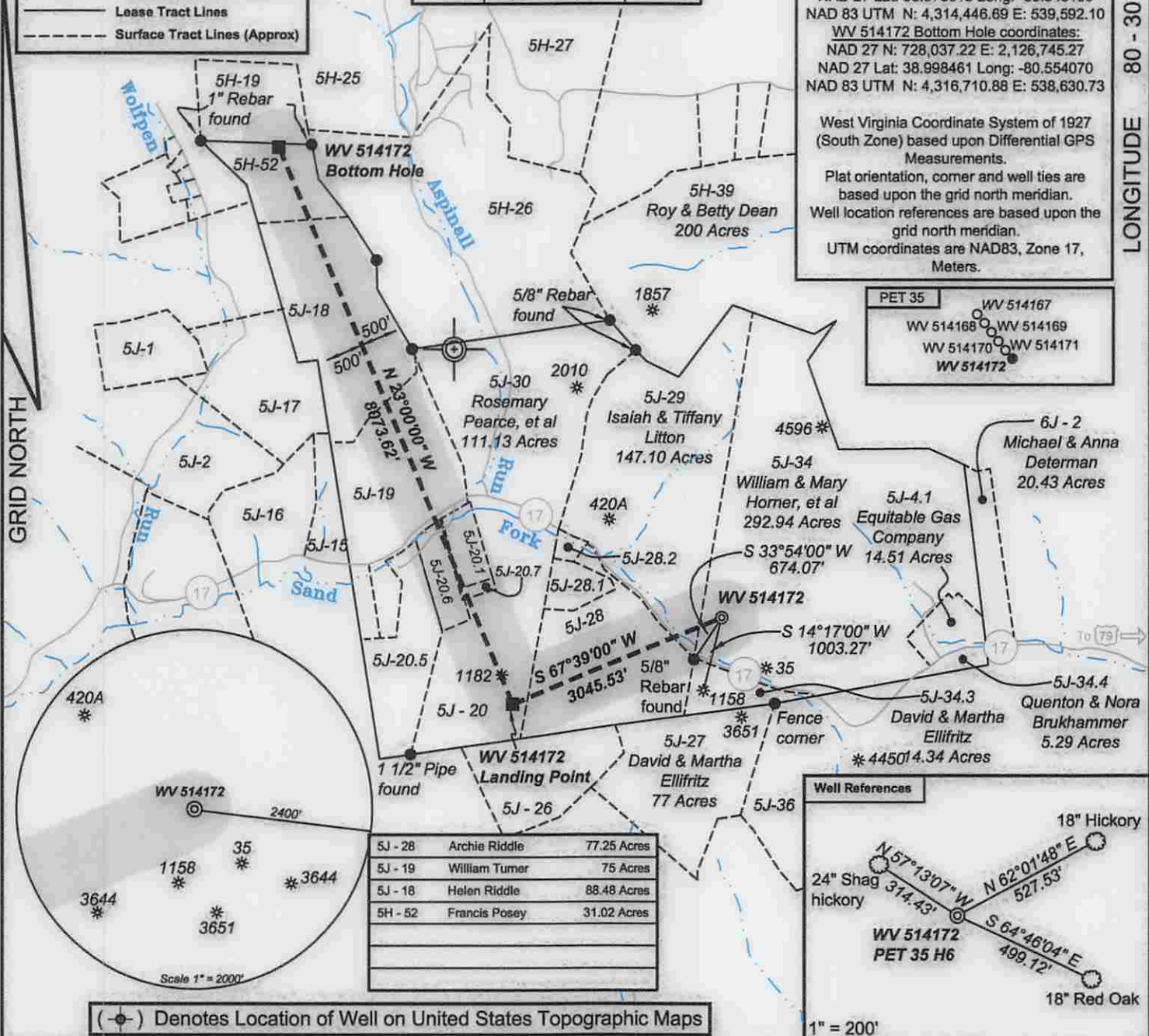
PET 35

WV 514168 WV 514169  
WV 514170 WV 514171  
**WV 514172**

GRID NORTH

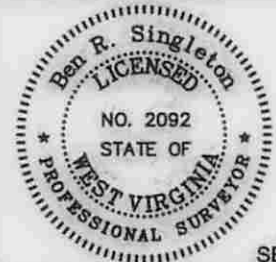
LONGITUDE 80 - 30 - 00

6895'-



***I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.***

P.S. 2092



SEAL

FILE NO: 371-12-C-13  
DRAWING NO: H6 Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
1:2500  
PROVEN SOURCE OF ELEVATION:  
NGS CORS Station

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: August 6 20 14  
 OPERATOR'S WELL NO. WV 514172  
 API WELL NO 4604  
47 - 41 - 05694  
 STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL  
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW  
LOCATION: ELEVATION: 1158.00' Existing 1155.75' Proposed WATERSHED Sand Fork QUADRANGLE: Peterson  
DISTRICT: Court House COUNTY: Lewis  
SURFACE OWNER: William & Mary Horner, et al ACREAGE: 292.94  
ROYALTY OWNER: Weston Creek, LLC et. al. LEASE NO: 105366 ACREAGE: 1100  
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION  
☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD 7,417  
MD 18,120

WELL OPERATOR: <u>EQT Production Company</u>	DESIGNATED AGENT: <u>Rex C. Ray</u>
ADDRESS: <u>115 Professional Place PO Box 280</u>	ADDRESS: <u>115 Professional Place PO Box 280</u>
<u>Bridgeport, WV 26330</u>	<u>Bridgeport, WV 26330</u>